

INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR2004/050622

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01Q15/00 H01Q3/44 H01Q19/28 H01Q3/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 3 560 978 A (HIMMEL LEON ET AL) 2 February 1971 (1971-02-02) the whole document	1
A		2-19
Y	POILASNE G ET AL: "ACTIVE METALLIC PHOTONIC BAND-GRAP MATERIALS (MPBG): EXPERIMENTAL RESULTS ON BEAM SHAPER" IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, IEEE INC. NEW YORK, US, vol. 48, no. 1, January 2000 (2000-01), pages 117-119, XP000908643 ISSN: 0018-926X the whole document	1
A	US 4 700 197 A (MILNE ROBERT) 13 October 1987 (1987-10-13) abstract	1-19
	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

23 May 2005

Date of mailing of the international search report

31/05/2005

Name and mailing address of the ISA

European Patent Office, P B 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax. (+31-70) 340-3016

Authorized officer

Wattiaux, V

INTERNATIONAL SEARCH REPORT

International Application No

PCT/FR2004/050622

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 1 111 718 A (NIPPON ELECTRIC CO) 27 June 2001 (2001-06-27) column 1, line 13 - line 41 column 10, line 45 - column 11, line 2; figures 12,17 -----</p>	1-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FR2004/050622

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3560978	A	02-02-1971	BE 749080 A1	19-10-1970
			DE 1953443 A1	27-05-1970
			ES 373060 A1	16-11-1971
			FR 2022375 A5	31-07-1970
			GB 1275579 A	24-05-1972
			JP 49032239 B	28-08-1974
			SE 355270 B	09-04-1973
US 4700197	A	13-10-1987	CA 1239223 A1	12-07-1988
			DE 3579650 D1	18-10-1990
			EP 0172626 A1	26-02-1986
			JP 1764927 C	11-06-1993
			JP 4053322 B	26-08-1992
			JP 61025304 A	04-02-1986
EP 1111718	A	27-06-2001	JP 3491682 B2	26-01-2004
			JP 2001185947 A	06-07-2001
			AU 7245100 A	28-06-2001
			DE 60001709 D1	24-04-2003
			DE 60001709 T2	18-12-2003
			EP 1111718 A2	27-06-2001
			US 2001005181 A1	28-06-2001